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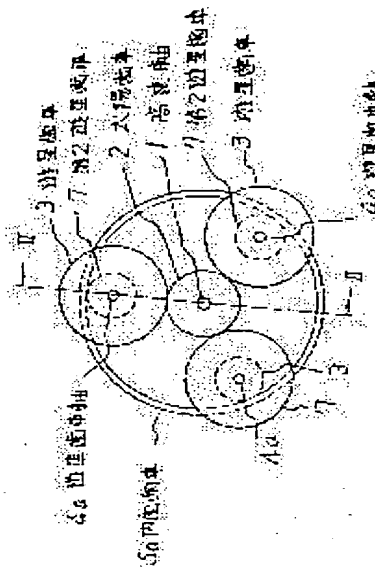
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## (54) HIGH CHANGE GEAR RATIO PLANETARY GEAR

## (57)Abstract:

PURPOSE: To obtain a large speed increasing ratio with a compact device by making the diameter of a second planetary gear smaller than that of a coaxial planetary gear meshed with a sun gear.

CONSTITUTION: A sun gear 2 is provided on the end part of a high speed shaft 1 rotated by a driving source of a motor, etc. and planetary gear 3 are meshed with the sun gear 2 and rotated centering around planetary gear shafts 4a. And, a second planetary gear 7 is provided on the same axis 4a of the planetary gear 3 and its diameter is made smaller than that of the planetary gear 3. Accordingly, when the number of teeth of the second planetary gear is set to, e.g., 20, the speed of rotation of the sun gear is 10r.p.m. per 1r.p.m. of an internal gear, while when the number of teeth of the internal gear is set to 80, the speed of rotation of the sun gear is 8r.p.m. per 1r.p.m. of the internal gear, and, thus, a speed change device with a high speed increasing ratio can be obtained.



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